

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P888342

Luminaire Tested: **DPT5-4F021-85V60-F-XX-UDD_4000K**

Issue Date: 10/24/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P888342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (DEFINE LENGTH SCALING TOOL)
Test Lab: INNOVATIONS CENTER
Issue Date: 10/24/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: DPT5-4F021-85V60-F-XX-UDD_4000K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

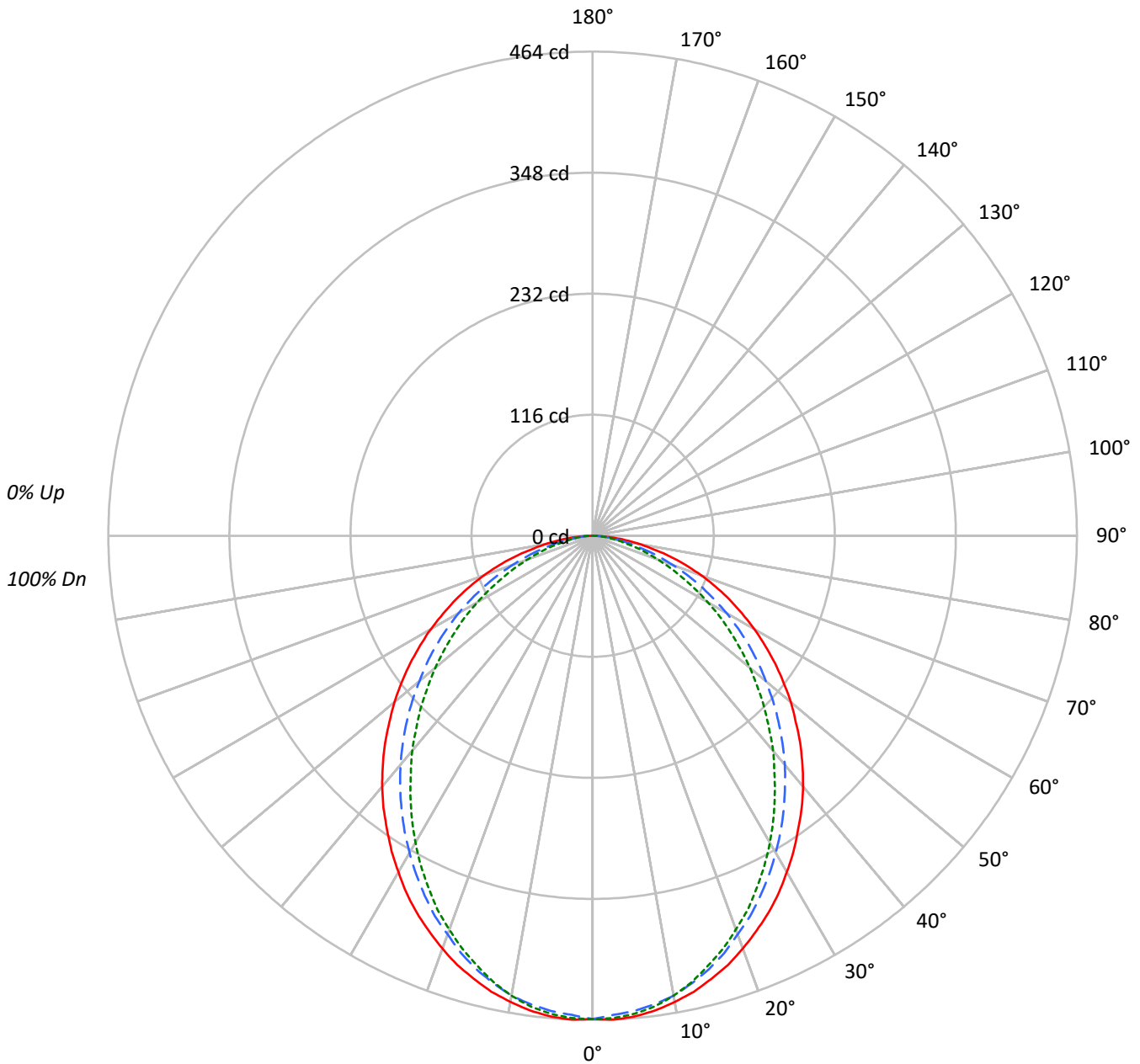
Lumens per Lamp: N/A
Luminaire Lumens: 1094.0 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85																			
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72																			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61																			
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53																			
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46																			
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41																			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36																			
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33																			
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29																			
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7749	7749	7749
5°	7767	7678	7724
10°	7708	7606	7606
15°	7616	7451	7392
20°	7497	7237	7150
25°	7360	7025	6870
30°	7190	6778	6562
35°	7015	6523	6216
40°	6853	6256	5876
45°	6655	5959	5505
50°	6454	5636	5118
55°	6226	5327	4706
60°	5994	4950	4260
65°	5722	4514	3750
70°	5406	3968	3234
75°	4972	3349	2690
80°	4385	2631	2265
85°	3686	2150	2016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	4.0
10°-20°	121.8	11.1
20°-30°	176.6	16.1
30°-40°	201.2	18.4
40°-50°	196.1	17.9
50°-60°	165.0	15.1
60°-70°	115.6	10.6
70°-80°	59.3	5.4
80°-90°	14.8	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	342.0	31.3
0°-40°	543.1	49.6
0°-60°	904.3	82.7
0°-90°	1094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	463	463	463	463	463	
5°	462	461	457	460	460	44
15°	440	438	430	430	427	124
25°	399	393	380	376	372	183
35°	343	335	319	309	304	215
45°	281	271	252	238	233	217
55°	213	202	183	167	161	191
65°	144	132	114	100	95	143
75°	77	66	52	44	42	81
85°	19	13	11	11	10	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	463.1	463.1	463.1	463.1	463.1
2.5°	464.1	463.1	459.6	463.1	462.7
5°	462.4	461.0	457.1	460.5	459.8
7.5°	458.9	457.4	452.9	455.7	455.0
10°	453.6	452.6	447.6	448.7	447.6
12.5°	447.6	446.2	439.2	439.9	438.2
15°	439.6	437.5	430.1	429.8	426.7
17.5°	431.2	428.1	419.3	417.6	415.1
20°	421.0	417.6	406.4	404.6	401.5
22.5°	409.9	406.4	394.6	390.7	388.1
25°	398.6	393.4	380.5	375.9	372.1
27.5°	386.1	379.8	366.1	360.2	356.4
30°	372.1	365.5	350.8	342.8	339.6
32.5°	358.4	350.4	335.4	326.3	322.2
35°	343.4	335.1	319.3	309.2	304.3
37.5°	329.1	318.9	302.8	291.0	286.0
40°	313.7	303.2	286.4	273.1	269.0
42.5°	297.6	286.7	269.2	256.7	250.0
45°	281.2	271.1	251.8	237.8	232.6
47.5°	264.0	253.6	234.3	220.0	214.0
50°	247.9	236.4	216.5	201.8	196.6
52.5°	230.4	218.6	200.0	183.9	178.7
55°	213.4	202.1	182.6	166.9	161.3
57.5°	195.9	183.9	165.1	149.7	144.8
60°	179.1	166.9	147.9	132.5	127.3
62.5°	161.3	149.7	130.5	116.4	111.2
65°	144.5	132.5	114.0	100.0	94.7
67.5°	127.6	115.8	97.9	84.7	80.5
70°	110.5	98.6	81.1	70.3	66.1
72.5°	93.7	82.2	66.1	56.3	53.9
75°	76.9	66.4	51.8	44.1	41.6
77.5°	59.7	51.4	39.1	33.3	31.1
80°	45.5	37.1	27.3	24.1	23.5
82.5°	31.5	24.1	18.2	17.1	16.8
85°	19.2	12.9	11.2	10.8	10.5
87.5°	8.1	5.6	5.3	5.3	4.9
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)